

Introduction to Health Science

CIP Code: 51.0001
Units of Credit: 0.5 Credits
Levels: 9-12
Skill Certificate: Not Available

Introduction to Health Science Description: This semester course is designed to create an awareness of career possibilities in health care and inform students of the educational options available for health science and health technology programs. Instruction includes beginning anatomy and physiology, medical terminology, medical ethics, diseases, and disorders. The course prepares students for the Medical Anatomy/Physiology course and/or for a variety of health technology programs.

UNIT 1 - INTRODUCTION

1. Identify key events in the history of science of medicine.
2. Describe different types of health care facilities.
3. Match medical terms and abbreviations with their correct meaning.
4. Use the 24-hour clock and the metric system.
5. Identify the levels of structural organization.
6. Identify the major systems of the body.
7. Define body directional terms relating to the body.
8. Describe the structures and functions of cell parts.
9. Identify some entry careers in the health and medical fields

UNIT 2 - SUPPORT SYSTEMS

1. Describe the basic functions of the skeletal system.
2. Identify some of the bones of the basic skeleton.
3. Distinguish between the two major divisions of the skeletal system.
4. Describe the major features of a bone and a joint.
5. Describe the diseases and disorders of the skeletal system and relate them to health careers involved in diagnosis, treatment and prevention.
6. Describe the basic functions of the muscular system.
7. Distinguish the basic features of the three types of muscle tissue.
8. Identify the major muscles of the human body.
9. Describe the diseases and disorders of the muscular system and relate them to health careers involved in diagnosis, treatment and prevention.
10. Describe the basic functions of the integumentary system.
11. Identify the basic structures associated with the integumentary system.
12. Describe the diseases and disorders of the integumentary system and relate them to health careers involved in diagnosis, treatment, and prevention.

UNIT 3 - TRANSPORTATION

Respiratory System Objectives

1. Identify and give the meaning of selected vocabulary words.
2. Recognize, spell, and pronounce medical words that relate to the respiratory system.
3. Describe the basic structures of the respiratory system.
4. Describe the basic functions of the respiratory system.
5. Demonstrate an understanding of emergency care for a victim with an airway obstruction.
6. Identify diseases and disorders associated with the respiratory system.
7. Identify health careers associated with the respiratory system.

Circulatory System Objectives

1. Identify and give the meaning of selected vocabulary words.
2. Recognize, spell, and pronounce medical words that relate to the circulatory system.
3. Describe the basic structures of the circulatory system.
4. Describe the basic functions of the circulatory system.
5. Identify diseases and disorders associated with the circulatory system.
6. Identify health careers associated with the circulatory system.

Lymphatic/Immune System Objectives

1. Identify and give the meaning of selected vocabulary words.
2. Recognize, spell, and pronounce medical words that relate to the lymphatic/immune system.
3. Describe the basic structures of the lymphatic/immune system.
4. Describe the basic functions of the lymphatic/immune system.
5. Identify diseases and disorders associated with the lymphatic/immune system.
6. Identify health careers associated with the lymphatic/immune system.

UNIT 4 - REGULATION

Nervous System Objectives

1. Identify and give the meaning of selected vocabulary words for the nervous system.
2. Recognize, spell, and pronounce medical terms related to the nervous system.
3. Describe the basic structures of the nervous system.
4. Describe the basic functions of the nervous system.
5. Identify and label the major parts of a neuron and the brain.
6. Identify diseases and disorders associated with the nervous system.
7. Identify health related careers associated with the nervous system.

Endocrine System Objectives

1. Identify and give the meaning of selected vocabulary words for the endocrine system.

2. Recognize, spell, and pronounce medical terms related to the endocrine system.
3. Describe the basic glands of the endocrine system.
4. Describe the basic functions of the endocrine system glands.
5. Identify diseases and disorders associated with the endocrine system.
6. Identify health related careers associated with the endocrine system.

UNIT 5 – MAINTENANCE

Digestive System Objectives

1. Identify and give the meaning of selected vocabulary words for the digestive system.
2. Recognize, spell, and pronounce medical terms related to the digestive system.
3. Describe the basic structures of the digestive system.
4. Describe the basic functions of each of the digestive system organs.
5. Identify diseases and disorders associated with the digestive system.
6. Identify health related careers associated with the digestive system.

Urinary System Objectives

1. Identify and give the meaning of selected vocabulary words for the urinary system.
2. Recognize, spell, and pronounce medical terms related to the urinary system.
3. Identify the basic organs of the urinary system.
4. Identify the function(s) of each of the urinary organs.
5. Briefly describe the formation of urine.
6. Identify the major components of urine.
7. Identify the diseases and disorders related to the urinary system.
8. Identify the health careers related to the urinary system.

UNIT 4 – REPRODUCTION

1. Describe the functions of the male and female reproductive systems.
2. Label a diagram of the male and female reproductive systems and be able to describe the function(s) of each organ.
3. Describe the different phases of the menstrual cycle.
4. Be able to describe what occurs in fertilization, cell division, and implantation.
5. Describe the membranes associated with embryonic/fetal development.
6. Describe what changes occurs during the nine months of embryonic and fetal development.
7. List and describe the three stages of birth.
8. Identify health care careers associated with the reproductive systems.
9. Describe the diseases and disorders of the male and female reproductive systems.